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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/937,598	09/28/2001		Takeshi Fujiyama	1752-0147P	2675
2292	7590	08/20/2003		4	
		OLASCH & BII	EXAMINER		
PO BOX 747 FALLS CHURCH, VA 22040-0747				ROBERTSON, JEFFREY	
				ART UNIT	PAPER NUMBER
				1712	
				DATE MAILED: 08/20/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		D5-7					
	Application N .	Applicant(s)					
	09/937,598	FUJIYAMA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Jeffrey B. Robertson	1712					
The MAILING DATE of this c mmunicati n appears n the cover sheet with the corresp ndence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period with a Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONF	nely filed s will be considered timely. the mailing date of this communication. D. (35 U.S.C. 8.133)					
1) Responsive to communication(s) filed on 28 S	eptember 2001 .						
2a) This action is <b>FINAL</b> 2b) ☐ This	s action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under <i>E</i> <b>Disposition of Claims</b>	<i>x par</i> te <i>Quayle</i> , 1935 C.D. 11, 4	53 O.G. 213.					
4) Claim(s) 1-6 is/are pending in the application.	•						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>1-3</u> is/are allowed.	i)⊠ Claim(s) <u>1-3</u> is/are allowed.						
6)⊠ Claim(s) <u>4-6</u> is/are rejected.							
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accept							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☑ None of:							
1. Certified copies of the priority documents	have been received.						
2. Certified copies of the priority documents	Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received.  15)☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Motice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.5	5) Notice of Informat Page	(PTO-413) Paper No(s) atent Application (PTO-152)					
Patent and Trademody Office							

U.S. Patent and Trademark Offic PTO-326 (Rev. 04-01) Application/Control Number: 09/937,598

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#### **DETAILED ACTION**

### **Priority**

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on 3/30/99. It is noted, however, that there is no copy of the certified priority document in the application file. The examiner has tried to retrieve a copy of the priority document on line, but there is no copy available. Applicant is reminded that the examiner cannot allow the case without a certified copy of the priority document.

#### Information Disclosure Statement

2. It is noted that in the information disclosure statement submitted on December 20, 2001, the examiner has crossed out the Japanese abstracts listed under the foreign patent documents section and has cited the abstracts on the PTO-892 form. In the future, English abstracts should be cited under the "Other Documents" section, because they are not the Patent documents themselves.

#### Specification

3. The abstract of the disclosure is objected to because it is two paragraphs. Correction is required. See MPEP § 608.01(b).

# Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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5. Claims 4-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

For claim 4, the  $X_1$  variable is undefined. A definition of this variable must be included in the claim to allow one of ordinary skill in the art to know the metes and bounds of the claim.

For claim 5, there is a lack of antecedent basis for "the terminal OH or OM group". It is unclear what terminal group applicant is referring to since no such group has been referred to previously in the claims.

## Allowable Subject Matter

- 6. Claims 4-6 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.
- 7. Claims 1-3 are allowed.
- The following is a statement of reasons for the indication of allowable subject matter: The closest prior art is Namba et al. (U.S. Patent No. 6,303,268). Namba teaches resist compositions containing ladder-type polyorganosilsesquioxanes, which may be end-capped with disiloxanes. Namba also teaches the protection of side chain groups with tert-butyl groups. Namba fails to teach or suggest a structure of applicant's general formula (1), where the residue of the disiloxanes is reacted to give a t-BOC group. The protected groups are on the methacrylate side chains or the silsesquioxane backbone. There is no indication in Namba that there are free terminal –OH groups after the end-capping treatment with the disiloxanes.

#### Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Takemura et al. (U.S. Patent No 5,612,170), Lin et al. (U.S. Patent No. 6,210,856), and Nakashima et al. (U.S. Patent No. 6,309,796) are cited for general interest.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey B. Robertson whose telephone number is (703) 306-5929. The examiner can normally be reached on Mon-Fri 7:00-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert A. Dawson can be reached on (703) 308-2340. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Jeffrey B. Robertson Primary Examiner

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JBR August 11, 2003